W	ork	Ord	er II	5849'	7

May 7, 2010 2:21:57 PM

Page 1

Item ID:

D205-634-041

Accept



Setup Start



Revision ID:

Item Name: Replacement Skidtube

Start Date:

07/05/2010

Start Qty: 1.00 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Required Date: 24/05/2010

Date: 10-5-07 Tooling:

Date:

Run

Start

Stop



Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID Operation Description

Set Up/ **Run Hours** Draw Number Draw Rev.

Plan Code Qty

Reject Accept Qty

Reject Number

Insp. Stamp

Draw Nbr

Revision Nbr

D2580 Rev D

100

Document Control

DOCUMENT CONTROL

Memo

0.00

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

110

CNC Bend 1

CNC Delta 100 Bender

0.00

BENDING MACHINE - SKIDTUBES

Memo

0.00

1-Bend as per program D2580.C on CNC Bender and Folio FT009

2-Cut tubes as per Dwg. D2580

4 0/5/18

Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANG	ES ·		,	* \
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector
							5	
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA: _	Date: _	
	R	esolution:	Disposition	n:	QA: N/C CI	osed:	Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCF	R)		
	0750	Description of NC		Corrective Action Section B		Verificatio	n Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Work Order ID 58497

May 7, 2010 2:21:57 PM



Page 2

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

07/05/2010

Start Qty: 1.00

Required Date: 24/05/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start

Stop



Operation

Description

Date:_____

SPC (Y/N):

Set Up/

Run Hours

Draw

Draw

Accept

Reject

Reject Number

0.00

0.00

Number

Rev.

Plan Code

Qty

Qty

Insp. Stamp

120

Sequence ID/

Work Center ID

Skidtubes

Skidtubes

Memo

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

4- Scribe batch number insied aft end of tube.

130

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

_1_0 ___ &E 10/05/19

Quality Control

W/O:			V	ORK ORDER CHANG	ES			
DATE	STEP	PRO	CEDURE CH	,	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Car	tegory:	NCR: Yes	No DQA :	_ Date: _	
	R	esolution:	Disposit	ion:	_ QA: N/C Cld	sed:	Date: _	
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DATE	STEP	Description of NC		Corrective Action Section		Verification	Approva!	Approval
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Work Order ID 58497

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Page 3

Item ID:

D205-634-041

Accept



Setup Start

Stop





Revision ID:

Item Name:

Replacement Skidtube

Start Date:

07/05/2010

Start Qty: 1.00

Required Date: 24/05/2010

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:	
4	

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

140



Skidtubes

Skidtubes

Operation Description

Set Up/ **Run Hours**

Draw Number

Draw Plan Rev. Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

Memo

0.00

0.00

1-Weld step D2576 as per Dwg. D2580 and OSL004

A/R□□□ Aluminum Rod

BE 10/05/19

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill

A/R□□□ Aluminum Rod

MIUSOC

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

M 6/5/19

W/O:			WO	RK ORDER CHANG	ES			
DATE	STEP	PRO	PROCEDURE CHANGE				Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	jory:	_ NCR: Yes	No DQA :	Date: _	
	Re	esolution:	Disposition	l:	_ QA: N/C Clo	osed:	Date: _	<u></u>
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCR)		
DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval
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Work Order ID 58497

May 7, 2010 2:21:57 PM

Required Date: 24/05/2010



Page 4

Item ID:

D205-634-041

Accept

Setup Start



Revision ID:

Item Name:

Start Date:

Replacement Skidtube

07/05/2010

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvais:	

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Draw

Run

Start

Stop

Stop



Sequence ID/ **Work Center ID**

150

Quality Control

Operation Description

QC10- Inspect visual per OSI004- ground welds

Set Up/ **Run Hours**

> colotle

Number Rev.

Date:

Draw Plan Code

Accept Qty

Reject Reject Qty

Insp. Number Stamp

Memo

0.00

160

QC

Quality Control

QC5- Inspect part completeness to step on W/O

170

HandFinish

Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd

cap out of solution.

DBL 10-5-20.

W/O:			V	ORK ORDER CHANG	GES		•	,		1
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Ca	tegory:	NCI	R: Yes I	No DQ	\ <u>. </u>	Date:	
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DATE	STEP	Description of NC			tion B		Verific	ation	Approval	Approval
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Work Order ID 58497

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Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

07/05/2010

Start Qty: 1.00

Req'd Qty: 1.00 **Required Date: 24/05/2010**

Cust Item ID: Customer:

Reference:

А	nn	ro	va	Is:	

Process Plan:

Operation

Description

Date:_____

Tooling:

Date:

Run Start

Reject

Qty

QC:

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Draw

Rev.

Plan

Code

Stop

Reject

Number

Insp.

Stamp

Sequence ID/ **Work Center ID**

180

Powdercoat

Powder Coating

START TIME: OVEN TEMPERATURE: FINISH TIME:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

=> M 10/05/21

Draw

Number

Accept

Qty

190

QC

Quality Control

QC3- Inspect Part Finish

Memo

Memo

0.00

0.00

1 bl 10-5-25

W/O:		- 1.00	W	ORK ORDER CHAN	IGES					Y
DATE STEP		PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	egory:	NCI	R: Yes	No DQA	\:	_ Date: _	
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NCR:		`	WORK ORE	ER NON-CONFOR	MANCE	(NCR)			
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Work Order ID 58497

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Item ID:

D205-634-041

Accept

Setup Start

Run

Stop



Revision ID:

Item Name: Replacement Skidtube

Required Date: 24/05/2010

07/05/2010

Start Qty: 1.00

Req'd Qty: 1.00

Date:

Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Start Date:

Sequence ID/	

Work Center ID

Operation Description

Process Plan:

Set Up/ **Run Hours**

Draw Number

Draw Rev.

Date:

Date:

Plan Code

Accept Qty

Reject Qty

Start

Stop

Reject Insp. Number Stamp

200



Hand Finishing

Memo

0.00

0.00

Tooling:

SPC (Y/N):

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of

Sikaflex on insert holes before installing wearpl A/R □□□ Sikaflex-291 Sikaflex expire date:

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive A/R 🗆 🗆 🗆 Sikaflex-291

Sikaflex expire date:

580 and QSI 005 4.4

bk 10-5-27.

W/O:			W	ORK ORDER CHANGE	ES				
DATE	STEP	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cat	tegory:	NCR: Yes	No DQ	A:	Date:	
	Re	esolution:	Dispositi	on:	QA: N/C Cld	sed:		Date: _	
NCR:	·	\	WORK ORI	DER NON-CONFORMA	NCE (NCR)			
DATE	OTED	Description of NC		Corrective Action Section B			cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspector
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Work Order ID 58497

May 7, 2010 2:21:57 PM

Required Date: 24/05/2010



Page 7

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name: **Start Date:**

Replacement Skidtube

07/05/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:

Process Plan: _____

Date:

Tooling:

0.00

0.00

0.00

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

SPC (Y/N):

Date:

Draw

Rev.

Plan

Code

Date:

Accept

Run

Stop

Reject

Start



Number Stamp

Insp.

Sequence ID/

Work Center ID

210

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Foreign objects per QSI 024

QC: Date:

Set Up/ **Run Hours**

Oty

Qty

Reject

220

Packaging

Packaging

Packaging

Memo

Memo

0.00

Identify and pack for shipping as per PPPD205-634-041

Location:

230

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

10/06/01 A) - 10/06/01 A) - WF (0.60)

		·							•
W/O:			W	ORK ORDER CHAN	GES		• • •• • • • • •		
DATE	DATE STEP PRO			EDURE CHANGE By			Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
						:			
Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQA	\:	Date:	
			Disposition	Disposition: 0			QA: N/C Closed:		
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCF	R)			
DATE	STEP	Description of NC			ection B	Verific		Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Section	on C	Chief Eng	QC Inspector
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Picklist Print May 7, 2010 2:22:	
Work Order ID: 58	3497
Parent Item: D	205-634-041
Parent Item Name:	Replacement Skidtube
Comments:	IPP Rev:N□02.08.28 IPP Rev P 10.02.19 IPP Rev. O 06.02.28 IPP Rev:P 07-07-09
D2580-1 205 Skidtube bent detail	



Start Date: 07/05/2010

Required Date: 24/05/2010

Page 1

Start Qty: 1.00

Required Qty: 1.00

P Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

P Rev P 10.02.19 per PAR09-043 EC verified by:DD

P Rev. O 06.02.28 Added paperwork EC

Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Manufactured

Manufactured

No

No

D2360-1

Manufactured No 110

Each

9.0000

Location	Loc	e Oty	Loc Code		
LG		9			
57028		1			
57347		1			
57902		1			
57938		2			
58090		2			
58112		2			
	140	Each	110,0000	1	

D2576-3

Step (maching detail)

Location	Lo	c Oty	Loc Code
LG		110	
46661			
52215		48	
	140	Each	193,0000

20

D2579 Crossbolt Spacer

Loc Qty Loc Code 193 57052 13

180

80 BE 10/05/19

Location LG

57348

	· · · · · · · · · · · · · · · · · · ·								
W/O:			WO	RK ORDER CHANG	BES				
DATE STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	ory:	_ NCR: Yes	No DQA:		Date: _	
Resolution: Dispos									
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NC	₹)	-		
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Picklist Print

May 7, 2010 2:22:02 PM

Page 2

Work Order ID: 58497

Parent Item:

D205-634-041

Parent Item Name:

Comments:

Replacement Skidtube

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

SS Wearplates & Gaskets IPP Rev:P 07-07-09

Purchased

Purchased

Start Date: 07/05/2010

Start Qty: 1.00

Required Date: 24/05/2010

Required Oty: 1.00

D2855

Manufactured

No

No

No

No

200

Each

105.0000

Cap

Locatio	<u>n</u>	Lo	Loc Oty		
FP6			2		
	56613		2		
ST026			103		
	50513		1		
	50770		29		
	51539		19		
	53791		54		
		200	Each	963.0000	

2

Bolt

AN3-5A

Location ST350

105057

Loc Qty 963 963 200 Each

Loc Code

4,297.000

Washer

AN960JD10L

ALS7-1032-130

Location ST348

110985

Loc Qty 4297

4297

17

17

Each

Loc Code

.17.0000

BL 16-5-27 50

Purchased

Insert

US4-1032-130

Loc Oty ST282 113238

Loc Code

ZBL 10-5-27

200

W/O:			V	VORK ORDER CHAN	GES	-7			,	•	
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Ca	tegory:	NCR:	Yes N	lo DQ	\ :	Date:		
Resolution:			Disposit	Disposition: QA: N/C Closed: Date:							
NCR:			WORK OR	DER NON-CONFORM	MANCE (NCR)					
DATE	STEP	Description of NC	Corrective Action		Section B		Verification		Approval	Approval	
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Picklist Print

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Page 3

Required Date: 24/05/2010

Required Qty: 1.00

Work Order ID: 58497

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09 SS Wearplates & Gaskets

Purchased

Purchased

Manufactured

No

JLM

200

200

Each

1,939.000

Loc Code

0.0000

50

Start Date: 07/05/2010

Start Qty: 1.00

BOLT

AN3C4A

Loc Qty
1939
501
300
138
1000

AN960C10L



washer D3566-13



Gasket

Manufactured No

No

NAS1149003322

114 3411 200

Each

Each 33.0000

Location FP

Loc Qty Loc Code 33

33 200 Each

21.0000

BP10-5-27



Gasket

D3566-5

Location	Loc Oty	Loc Code
FP015	21	
57526 57682	1	
57682	20	

bl 15-5-27.

W/O:			V	ORK ORDER CHANGE	2				, ,
DATE	STEP	PROC	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	_ Fault Ca	tegory:	NCR: Yes	No DQA :		Date:	
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NCR:		W	ORK OR	DER NON-CONFORMAN	CE (NCR	R)			
DATE	STEP	Description of NC	Corrective Action Section B Initial Action Description		B Sign &	Verifica		Approval	Approval
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Picklist Print

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Page 4

Work Order ID: 58497

Parent Item:

D205-634-041



Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09 SS Wearplates & Gaskets

Start Date: 07/05/2010

Required Date: 24/05/2010

Start Qty: 1.00

Required Qty: 1.00

D3566-1

Manufactured

No

200

Each

41.0000

2

Gasket

Location FP015

JLM

57715

58182

Loc Qty 41

20

BK 10-5-27

D3564-11

Manufactured

Manufactured

No

200

200

21 Each

9.0000

Loc Code

Wearshoe

Location

FP019

Loc Otv

Each

Loc Code

27.0000

Rb-5-27

D3564-13



Wearshoe

Location FP17

56533 57684 57922

Loc Qty 27 1

12

14

Loc Code

1 BR 10-5-27.

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W/O:			WC	RK ORDER CHANG	ES				
DATE	STEP	PROCEDURE CHANGE				Da	ite Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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<u> </u>									
Part No	•	PAR #:	Fault Cate	gory:	NCR: Y	es No	DQA:	Date: _	
		olution:							
NCR:			WORK ORDI	ER NON-CONFORMA	NCE (N	CR)			
DATE	STEP	Description of NC		on B	v	erification	Approval	Approval	
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		n & ate	Section C	Chief Eng	QC Inspector
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Picklist Print

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Page 5

Work Order ID: 58497

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

Manufactured

Manufactured

IPP Rev. O 06.02.28 Added paperwork EC IPP Rev:P 07-07-09

SS Wearplates & Gaskets

JLM

Start Date: 07/05/2010

Required Date: 24/05/2010

Start Qty: 1.00

Required Qty: 1.00

D3564-9

Manufactured No 200

Each

22.0000

Wearshoe

Locatio	<u>n</u>	Lo	c Oty	Loc Code	
FP			1		
	55334		1		
FP019			21		
	57685 57958		7		
	57958		14		
		200	Each	7.0000	

Loc Qty

Wearshoe

D3564-5

Location FG

FP19

57729

Loc Code

BR 10-5-07

D2594-3

O-Ring, 205 Skidtube

No

No

200

Each

407.0000

16

Location Loc Qty Loc Code FP 407 55546 19 58191 388

16 bf 10 5-27

	D	ar	t A	ere	os	pa	ce	Ltd
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W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector
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Part No		PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA	•	_ Date: _	
	R	esolution:	Disposition	n:	_ QA: N/C CI	osed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCF	l)		4	
DATE	STEP	Description of NC			ion B	Verifica	ation	Approval	Approval
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Picklist Print

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Work Order ID: 58497

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N \square 02.08.28 \square FP was QC5 in Step 27; Added QC5 to Step 30 \square KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09

SS Wearplates & Gaskets JLM Start Date: 07/05/2010

Start Qty: 1.00

Required Date: 24/05/2010

Required Qty: 1.00

D2594-1

Manufactured

No

200

Each

382.0000

16

Plug, 205 Skidtube

Location

57826

Loc Qty

Loc Code

16. Bl 10.5-27.

Dart	Aeros	pace	Ltd
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W/O:			W	ORK ORDER CHAN	IGES					
DATE	STEP	PRO	OCEDURE CHA	NGE	E	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	gory:	NCR:	Yes N	lo DQA	\ :	_ Date: _	L. v
	Re	esolution:	Dispositio	n:	QA: N	/C Clo	sed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	MANCE (NCR)				
DATE	STED	Description of NC			ection B		Verific	ation	Approval	Approval
DATE STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section C	Chief Eng	QC Inspector			

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	DESIG	#	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
	CHEC	KED	APPROVED	DRAWING NO. REV. D
		M		D2580 SHEET 1 OF 3
	DATE			TITLE SCALE
	07.0	02.27		205 SKIDTUBE ASSEMBLY NTS
_	Α		96.09.16	NEW ISSUE
	В		96.12.02	AS MANUFACTURED
	С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
	D		07.02.27	CHANGE TO SS WEARPLATES AND GASKETS, INCLUDE DEO 9124/9183



QTY -041	QTY -045	Part Number	Description		
Х		D2580-041	SKIDTUBE ASSEMBLY		
	Х	D2580-045	SKIDTUBE ASSEMBLY		
1	1	D2500-1-190	EXTRUSION		
1	1	D2576-3	STEP		
20	24	D2579	CROSS BOLT SPACER		
16	16	D2594-1	PLUG		
16	16	D2594-3	O-RING		
1	1	D2596	205 WEB		
1	1 1 D2855		AFT CAP		
1	1	D3564-5	WEARSHOE		
1	1	D3564-9	WEARSHOE		
1	1	D3564-11	WEARSHOE		
1	1	D3564-13	WEARSHOE		
2	2	D3566-1	GASKET		
1	1	D3566-5	GASKET		
1	1	D3566-13	GASKET		
50	50	ALS7-1032-130	INSERT		
		or AKS7-1032-130			
1		or AKS4-1032-130			
		or AELS-1032-130			
50	50	AN3C4A	BOLT		
2	2	AN3-5A	BOLT		
50	50	AN960C10L	WASHER		
2	2	AN960JD10L	WASHER		

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WORK ORDER
NO. 5749

BAD-5-07

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

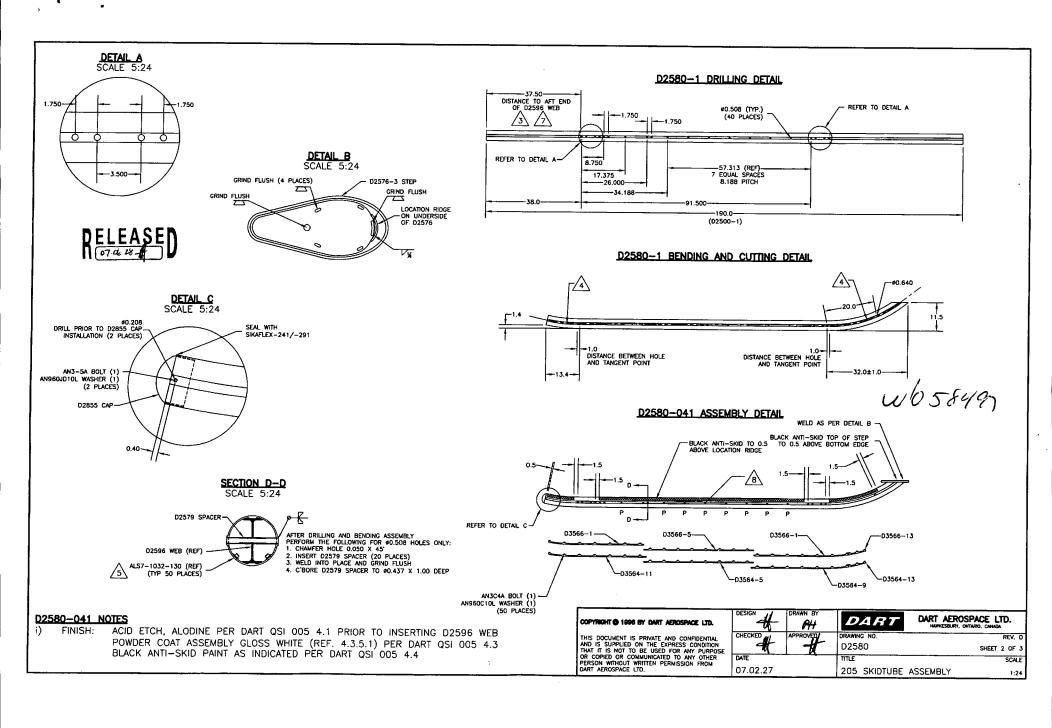
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

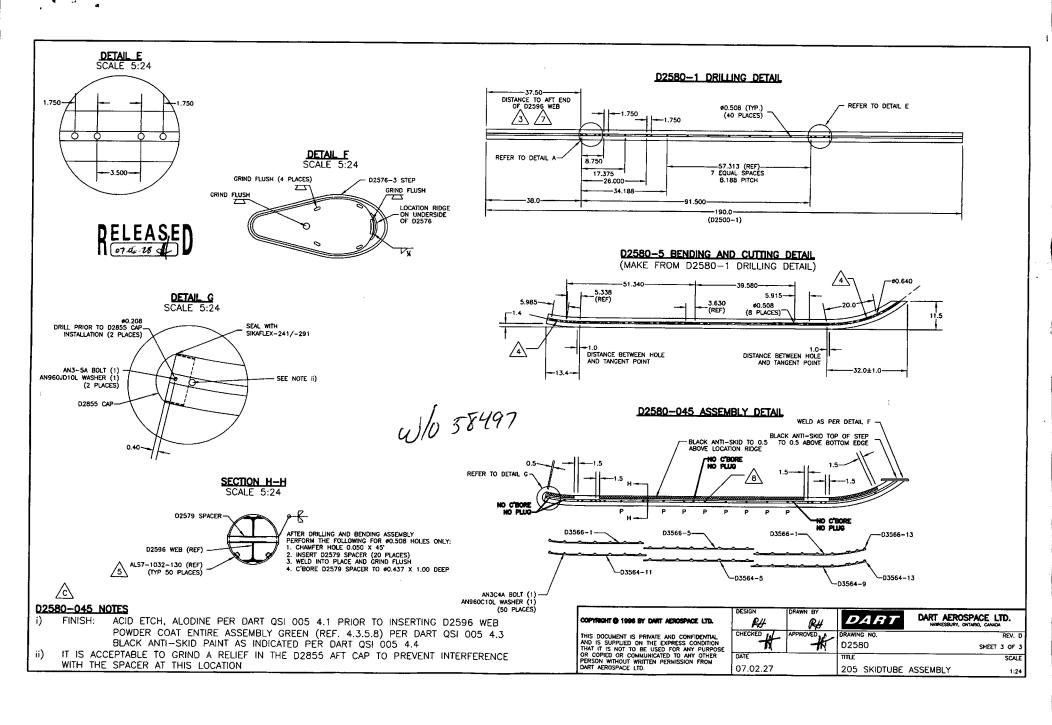
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W/O:			WC	RK ORDER CHANG	ES			
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:	Date: _	
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NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCF	R)		
DATE	STEP	Description of NC)	Corrective Action Section		Verification	Approval	Approval
Section A	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Section C	Chief Eng	QC Inspector	
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W/O:			W	ORK ORDER CHANG	ES			*
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	Re	esolution:	Dispositio	n:	_ QA: N/C Clo	sed:	Date: _	· · · · · · · · · · · · · · · · · · ·
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DATE	OTED	Description of NC		Corrective Action Sect	tion B	Verification	Approval	Approval
DATE	DATE STEP Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector	



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W/O:	ļ		٧	VORK ORDER CHANG	ES			
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:						
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DATE	STEP	Description of NC	Initial	Corrective Action Section Description	on B Sign &	Verificatio		Approval
		Section A	Chief Eng	Chief Eng	Date	Section C	Chief Eng	QC Inspector
\								
								

NO. 232

AWS D17.1.2001 QUALIFICATION TEST RECORD

Job number:	Barclay Elliott	
Part number:	D 202 PSH DAI	
Description:_		
Welding Prod	cess: Tig[] Mig[]	
Base materie	: Alyminium	
Current: AC	[] DC[]	

TEST REQUIREMENTS AND RESULTS

Visual: Penetration: <u>UNACCEPTABLE</u>	pass[] fail[] pass[] fail[]
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Sar Van els Welder Daslay Elliot	Date of Test Coupon 10.08.18 Date of Test Coupon 10.05.18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld